IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

n re application of:

Rosen et al.

Appl. No.: 10/023,584

Filed: December 21, 2001

Antibodies To Human Vascular

Endothelial Growth Factor 2

Confirmation No.: 4809

Art Unit:

1647

Examiner:

Landsman, Robert S.

Atty. Docket: 1488.100000Q/EKS/HCC

Ninth Supplemental Information Disclosure Statement Under 37 C.F.R. § 1.97(b)

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms, PTO/SB/08A and PTO/SB/08B, are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of documents FP1 to FP23 and NPL1 to NPL22 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of U.S. patents, documents US1 to US4, cited on the attached IDS Form, PTO/SB/08A, are not submitted.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following discussion of the relevance of the non-English language document FP14 cited on Form PTO/SB/08A:

Document FP14, WO 98/55619, is in a foreign language. An English language abstract of document FP14 can be found on the face page of the patent.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Helene C. Carlson Agent for Applicants Registration No. 47,473

Date: December 28, 2005

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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NINTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Substitute for form 1449/PTO

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Application Number	10/023,584				
Filing Date	December 21, 2001				
First Named Inventor	Craig A. Rosen				
Art Unit	1647				
Examiner Name	Landsman, Robert S.				
Attorney Docket Number	1488.100000Q/EKS/HCC				

			U.S. PATENT DO	OCUMENTS		
Examiner Cite		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
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	US1	5,932,540	08-03-1999	Hu et al.		
	US2	5,935,820	08-10-1999	Hu et al.		
·	US3	6,040,157	03-21-2000	Hu et al.		
	US4	6,130,071	10-10-2000	Alitalo et al.		
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	FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			T ⁶		
	FP1	AU-710696	09-30-1999	Genentech, Inc.			
	FP2	EP-0 506477	09-30-1992	Merck & Co., Inc.			
	FP3	WO-91/02058	02-21-1991	Scios Nova Inc.			
	FP4	WO-97/00271	01-03-1997	The Regents of the University of California			
	FP5	WO-97/05250	02-13-1997	University of Helsinki			
		WO-97/08320	03-06-1997	Morphosys Gesellschaft Fur Proteinoptimier			
	FP6			Ung MBH			
	FP7	WO-97/09427	03-13-1997	Genentech, Inc.			
	FP8	WO-97/17442	05-15-1997	Immunex Corporation			
	FP9	WO-97/19694	06-05-1997	Amgen, Inc.			

Examiner	Date	
Signature	Considered	

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English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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	INFORMATION DISCLOSURE STATEMENT BY APPLICANT			First Named Inventor	Craig A. Rosen
STAT				Art Unit	1647
(Use as many sheets as necessary)		Examiner Name	Landsman, Robert S.		
Sheet	2	of	3	Attorney Docket Number	1488.100000Q/EKS/HCC

			U.S. PATENT DO	CUMENTS		
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	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Té			
	FP10	WO-98/06844	02-19-1998	Human Genome Sciences, Inc.				
	FP11	WO-98/24811	06-11-1998	Zymogenetics, Inc.				
	FP12	WO-98/39035	09-11-1998	The Wistar Institute of Anatomy & Biology				
	FP13	WO-98/49300	11-05-1998	Collateral Therapeutics				
	FP14	WO-98/55619	12-10-1998	ASAT AG Applied Science & Technology				
	FP15	WO-98/56936	12-17-1998	Max-Planck-Gesellschaft Zur Forderung Der Wissenschaften E.V.				
	FP16	WO-99/02545	01-21-1999	Novopharm Biotech, Inc.				
	FP17	WO-99/08522	02-25-1999	Ludwig Institute for Cancer Research/Univ. Helsinki Licensing Ltd.				
	FP18	WO-99/20749	04-29-1999	Medical Research Council				

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	FP19	WO-99/21590	05-06-1999	Merck & Co.	
	FP20	WO-00/73430-A3	12-07-2000	Max-Delbrueck Centrum Fur Molekulare Medizin	
	FP21	WO-00/75163	12-14-2000	Human Genome Sciences, Inc.	
	FP22	WO-01/57226-A1	08-09-2001	Millennium Pharmaceuticals, Inc.	
	FP23	WO-01/58956-A3	08-16-2001	BASF Aktiengesellschaft	

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Signature	Considered	

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10/023,584

1647

Craig A. Rosen

December 21, 2001

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Application Number

First Named Inventor

Filing Date

Art Unit

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STATEMENT BY APPLICANT

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<u> </u>		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	T
	NPL1	ALTSHULER et al., "Taurine promotes the differentiation of a vertebrate retinal cell type in vitro," <i>Development</i> 119:1317-1328, The Company of Biologists Limited (December 1993)	
	NPL2	BOCKER-MEFFERT et al., "Erythropoietin and VEGF Promote Neural Outgrowth from Retinal Explants in Postnatal Rats," <i>Invest. Ophthalmol. Vis. Sci.</i> 43:2021-2026, Association for Research in Vision and Ophthalmology (June 2002)	
	NPL3	GERHARDINGER et al., "Expression of Vascular Endothelial Growth Factor in the Human Retina and in Nonproliferative Diabetic Retinopathy," Am. J. Pathol. 152:1453-1462, American Society for Investigative Pathology (June 1998)	
*	NPL4	HANNINK et al., "Deletions in the C-Terminal Coding Region of the v-sis Gene: Dimerization Is Required for Transformation" Mol. And Cellular Biol. 6:1304-1314, American Society for Microbiology (1986)	
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	NPL6	KELLEY et al., "Regulation of a Proliferation and Photoreceptor Differentiation in Fetal Human Retinal Cell Cultures," <i>Invest. Ophthalmol. Vis. Sci.</i> 36:1280-1289, Association for Research in Vision and Ophthalmology (June 1995)	
·	NPL7	NGO et al., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox," in: The Protein Folding Problem and Tertiary Structure Prediction, Kenneth Merz, Jr. and Scott LeGrand, eds., Birkhauser, Boston, MA, pp. 491-495 (January 1994)	
	NPL8	RUDIKOFF et al., "Single amino acid substitution altering antigen-binding specificity," Proc. Natl. Acad. Sci. USA, 79:1979-1983, National Academy of Science (1982)	
	NPL9	SCHLAEPPI et al., "Characterization of a new potent, in vivo neutralizing monoclonal antibody to human vascular endothelial growth factor." J. Cancer Res. Clin. Oncol. 125:336-342, Springer-Verlag (June 1999)	
	NPL10	SCHRATZBERGER et al., "Reversal of experimental diabetic neuropathy by VEGF gene transfer," J. Clin. Invest. 107:1083-1092, American Society for Clinical Investigation (May 2001)	

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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL11	SCHULZ-KEY et al., "Ciliary Neurotrophic Factor as a Transient Negative Regulator of Rod Development in Rat Retina," <i>Invest. Ophthalmol. Vis. Sci.</i> 43:3099-3108, Association for Research in Vision and Ophthalmology (September 2002)	
	NPL12	STACKER et al., "The Vascular Endothelial Growth Factor Family: Signalling for Vascular Development," Growth Factors 17:1-11, Harwood Academic Publishers (March 1999)	
	NPL13	VALE et al., "Percutaneous Electromechanical Mapping Demonstrates Efficacy of pVGI.1 (VEGF2) in an Animal Model of Chronic Myocardial Ischemia," Circulation (Supplement), 100:I-22, Lippincott, Williams & Wilkins (November 1999)	
•	NPL14	VALE et al., "Randomized, Single-Blind, Placebo-Controlled Pilot Study of Catheter-Based Myocardial Gene Transfer for Therapeutic Angiogenesis Using Left Ventricular Electromechanical Mapping in Patients with Chronic Myocardial Ischemia," Circulation, 103:17:2138-2143, Lipincott, Williams & Wilkins (May 2001)	
NPL	NPL15	VAN DER FLIER et al., "Antibody neutralization of vascular endothelial growth factor (VEGF) fails to attenuate vascular permeability and brain edema in experimental pneumococcal meningitis." J. Neuroimmunol. 160:170-177, Elsevier B.V. (March 2005)	
	NPL16	VERMA et al., "Gene therapy promises, problems and prospects," Nature 389:239-242, Nature Publishing Company (September 1997)	
	NPL17	WINKLER et al., "Changing the antigen binding specificity by single point mutations of an Anti-p24 (HIV-1) antibody." J. Immunol. 165:4505-4514, The American Association of Immunologists (October 2000)	
NPL18		YANG et al., "Flk-1, a Receptor for Vascular Endothelial Growth Factor (VEGF), Is Expressed by Retinal Progenitor Cells," J. Neurosci. 16:6089-6099, Society for Neuroscience (October 1996)	
	NPL19	GenBank Accession No. S08167, PAULSSON et al., "Balbiani ring 3 protein - midge (Chironomus tentans)," (first available April 1993 and last updated July 2000)	
	NPL20	NCBI Entrez, GenBank Report, Accession NO. AF010302, MANDRIOTA, S.J. and PEPPER, M.S. (first available and last updated July 1997)	

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	NPL21	EBI Accession No. AAW27553, KNAPPIK et al., "Human Ab heavy chain variable region VH3 consensus" (January 1998)				
	NPL22	YOUREY et al., "Vascular Endothelial Cell Growth Factors Promote the In Vitro Development of Rat Photoreceptor Cells," <i>Molec. Biol. Cell. 10</i> :39a, Abstract No. 227, American Society of Microbiology (November 1999)				
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